BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Development of Burial ground at Kodigehalli village in Ward no 08

Amount:50.00 Lakhs

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
	Compound wall								
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5(Item no2.3 page no 6 PWD,IWTD								
	Compound wall	Cum							
	East side	1	1	90.00	1.00	0.90	81.00		
	West side	1	1	95.00	1.00	0.90	85.50		
	North side	1	1	16.00	1.00	0.90	14.40		
	Columns	1	67	0.9	0.9	0.9	48.84		
	Total Qty	**Cum**					**229.74**	**322.92**	**74188.61**
	Basic Rate	299.00							
	Area weightage 8%	23.92							
	Final Rate	322.92							
2	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(Item no 4.7page no 13 PWD,IWTD SR 2018-19)								
	Compound wall	cum							
	East side	1	1	90.00	1.00	0.15	13.50		
	West side	1	1	95.00	1.00	0.15	14.25		
	North side	1	1	16.00	1.00	0.15	2.40		
	Columns	1	67	0.90	0.90	0.15	8.14		
	Total Qty	**cum**					**38.29**	**5733.72**	**219547.01**
	Basic Rate	5309.00							
	Sub Total	5309.00							
	Area weightage 8%	424.72							
	Final Rate	5733.72							
3	KSRB 5.2-3: Providing and constructing **granite size stone masonry** in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.(P.No.25, I.No.5.6 of PW, P&IWTD S.R 2018-19)								
	Compound wall	Cum							
	East side	1	1	90.00	0.90	0.60	48.60		
	West side	1	1	95.00	0.90	0.60	51.30		
	North side	1	1	16.00	0.90	0.60	8.64		
	2nd step								
	East side	1	1	90.00	0.75	0.45	30.38		
	West side	1	1	95.00	0.75	0.45	32.06		
	North side	1	1	16.00	0.75	0.45	5.40		

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amo
	Deduct Columns	1	-67	0.40	0.20	0.45	-2.41		
							173.97		
					Total		173.97	**4963.68**	**863509.07**
	Basic Rate	4596.00							
	Sub Total	4596.00							
	Area weightage 8%	367.68							
	Final Rate	4963.68							
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No.25, I.No.5.6 of PW, P&IWTD S.R 2018-19)								
	Compound wall	Cum							
	East side	1	1	90.00	0.45	0.45	18.23		
	West side	1	1	95.00	0.45	0.45	19.24		
	North side	1	1	16.00	0.45	0.45	3.24		
	Deduct Columns	1	-67	0.40	0.20	0.45	-2.41		
							38.29		
					Total		38.29	**5921.64**	**226742.56**
	Basic Rate	5483.00							
	Sub Total	5483.00							
	Area weightage 8%	438.64							
	Final Rate	5921.64							
5	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No.								
	Compound wall	Sqm							
	Columns	1	67	1.20		3.58	287.83		
	Total Qty	Sqm					287.83	561.04	161484.80
	Basic rate	519.48							
	Area weightage 8%	41.56							
	Total Rate	561.04							
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.31)								
	Compound wall								
	For Ground Floor								
	Plinth Beam	1	2	201.00		0.30	120.60		
	Total Qty	Sqm					120.60	386.64	46628.78
	Basic rate	358.00							
	Area Weightage 8%	28.64							
	Total Rate	386.64							

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
7	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.34)								
	Sill concrete	1	2	201.00		0.15	60.30		
	Total Qty	Sqm					60.30	315.36	19016.21
	Basic rate	292.00							
	Area Weightage 8%	23.36							
	Total Rate	315.36							
8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials,								
	Compound wall								
	Footings	1	67	0.90	0.90	0.45	24.42		
	Columns	1	67	0.20	0.40	3.58	19.19		
	Plinth Beam	1	1	201.00	0.23	0.30	13.87		
	Total Qty	Cum					57.48	6670.64	383423.81
	Basic rate	6176.52							
	Area Weightage 8%	494.12							
	Total Rate	6670.64							
	First floor								
9	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all								
	Compound wall								
	Sill concrete	1	1	201.00	0.20	0.15	6.03		
	Total Qty	Cum					6.03	6363.36	38371.06
	Basic rate	5892.00							
	Area Weightage 8%	471.36							
	Total Rate	6363.36							

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
10	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No : 17, item No : 4.46.2)								
	Compound wall								
	110kg/cum for Footings			24.42	110.00		2686.37		
	130kg/cum for Columns			19.19	130.00		2494.54		
	120kg/cum for Beams			13.87	130.00		1802.97		
	80kg/cum for Sill			19.90	80.00		1591.92		
							8575.80		
							8.58	76643.28	657277.36
	Total Qty	Tonne							
	Basic rate	70966.00							
	Area Weightage 8%	5677.28							
	Total Rate	76643.28							
11	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.S m. including cost								
	Compound wall								
	Around Footings	1	67	0.75	0.75	0.26	9.80		
							9.80	137.16	1344.00
	Total Qty	Cum							
	Basic rate	127.00							
	Area Weightage 8%	10.16							
	Total Rate	137.16							
12	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Item no 5.26.1 page no 27 PWD,IWTD SR 2018-19)								
	Compound wall								
	East side	1	1	90		1.85	166.50		
	West side	1	1	95		1.85	175.75		
	North side	1	1	16		1.85	29.60		
	deduct columns	-67	1	0.40		1.85	-49.58		
							322.27	**1038.96**	**334825.64**
	Total Qty	**Sqm**							
	Basic Rate	962.00							
	Area Weightage 8%	76.96							
	Final Rate	1038.96							

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
13	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No :114, item No : 15.20)								
	Compound wall								
	East side	2	1	90.00		1.85	333.00		
	West side	2	1	95.00		1.85	351.50		
	North side	2	1	16.00		1.85	59.20		
	Columns	2	67	0.80		1.85	198.32		
	Total Qty	Sqm					942.02	274.32	258414.93
	Basic rate	254.00							
	Area Weightage 8%	20.32							
	Total Rate	274.32							
14	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120I.No. 15.53.2 of SR 2018-19).								
	Compound wall								
	East side	2	1	90.00		1.85	333.00		
	West side	2	1	95.00		1.85	351.50		
	North side	2	1	16.00		1.85	59.20		
	Columns	2	67	0.80		1.85	198.32		
	Total Qty	Sqm					942.02	110.16	103772.92
	Basic rate	102.00							
	Area Weightage 8%	8.16							
	Total Rate	110.16							
15	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PWD SR 2018-19)								
	Compound wall								
	East side	1	1	90	0.20	0.10	1.80		
	West side	1	1	95	0.20	0.10	1.90		
	North side	1	1	16	0.20	0.10	0.32		
	Total Qty	**Cum**					4.02	5855.76	23540.16
	Basic Rate	5422.00							
	Area Weightage 8%	433.76							
	Final Rate	5855.76							

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amoun
16	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. (P. No. 45 / I. No. 7.37 of CSR 2018-19								
	Gate for entrance	1	1	4.5		3.00	13.50		
	Total Qty	**sqm**					**13.50**	**3252.96**	**43914.96**
	Basic Rate	3012.00							
	Area Weightage 8%	240.96							
	Final Rate	3252.96							
17	Removing and resetting of footpath slab(P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)								
	cross road								
			2	30.00	1.20	--	72.00		
	Culvert		2	8.00	1.80		28.80		
							100.80		
	Consider 50% for Damaged and missing Slabs						-50.40		
							50.40	208.82	10524.528
	Basic rate	**197.00**							
	Area Weightage 6%	**11.82**							
	Final Rate	**208.82**							
18	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	cross road	Cum							
	Desilting and Rising		1	134.00	0.60	1.00	80.40		
	Culvert		2	8.00	0.80	1.20	15.36		
							95.76	239.96	**22978.57**
	Basic rate	**130.00**							
	Loading and unloading with 10km lead= 57+2.5x1.28x10 = 100	**99.56**							
	Area Weightage 8%	**10.40**							
	Final Rate	**239.96**							
19	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.2 of PW,P&IWTD S.R								

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
	Bed Concrete	Cum							
	Desilting and Rising		2	134.00	0.33	0.15	13.07		
	for vent concrete & bed correction		1	134.00	0.60	0.150	12.06		
							25.13	5609.52	**140939.19**
	Basic rate	**5194.00**							
	Area Weightage 8%	**415.52**							
	Final Rate	**5609.52**							
20	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.25, I.No.5.6 of								
	Desilting and Rising	Cum	1	134.00	0.45	0.45	27.14		
							27.14	4963.68	**134714.28**
	Basic rate	**4596.00**							
	Area Weightage 8%	**367.68**							
	Final Rate	**4963.68**							
21	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.27, I.No.5.26.2 of PW, P&IWTD S.R 2018-19)								
	For flagging	Cum	1	134.00		0.40	53.60		
							53.60	997.92	**53488.51**
	Basic rate	**924.00**							
	Area Weightage 8%	**73.92**							
	Final Rate	**997.92**							
22	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2018-19)								
	Desilting and Rising	Sqm	1	134.00	--	0.80	107.20		
							107.20	152.28	**16324.42**
	Basic rate	**141**							
	Area Weightage 8%	**11.28**							
	Final Rate	**152.28**							
23	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW,P&IWTD S.R 2018-19)								
	Coping	Cum							
	Desilting and Rising		1	134.00	0.60	0.100	8.04		
		1.00	1.00	134.00	0.15	0.100	2.01		
							10.05	5855.76	**58850.39**
	Basic rate	**5422.00**							
	Area Weightage 8%	**433.76**							
	Final Rate	**5855.76**							

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
24	*Providing and fixing* ***RCC Precast cover slab of 100mm thick*** *for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)*								
	Desilting and Rising	*Sqm*	*1.00*	*134.00*	*1.50*		*201.00*		
							50.40		
							251.40	*2100.00*	***527940.00***
	Data Rate =2100								
								Total Construction Cost	***4421761.76***
25								***12%GST for Works***	***530612.00***
26								***Sub Total***	***4952373.76***
							Cost towards Third party & QC @ 1%charges		***44218.00***
27								***Sub Total***	***4996591.76***
							Miscellaneous and rounding off		***3408.24***
28								***Total***	***5000000.00***

Certificate.

1 *The rates adopted based on the PWD SR, Bangalore circle for year 2018-19*
2 *The provisions made in the estimate are necessary and essential.*
3 *The workspot was inspected and work is found to be necessary.*
4 *The area comes within the Bruhat Bangalore Mahanagara Palike limits.*

Assistant Engineer
AE W8 I/C.

Assistant Executive Engineer

Executive Engineer

Administrative Approval
Accorded For RSSO:w laschemly
Head of A/C P0190
CER NO :34 Dt:09.05.2019

TA CE (YNK)

Technical Sanction
Accorded For RSSO:w laschemly
Head of A/C P0190
CER NO :21 Dt:09.05.2019

TA CE (YNK)